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AMENDMENTS TO SPECIFICATION

Please amend the title as follows:

SYSTEM AND METHOD FOR ~~IMAGE~~ VIDEO PROCESSING BY IMAGE
SEGMENTATION

Please replace the paragraph beginning on page 2, line 4 with the following amended paragraph:

-- Accordingly, the present invention consists in one aspect in a method of segmenting image data having a plurality of feature values as each pixel, in which the data is represented as points in a segmentation vector space which is the product of the vector space of feature values and the vector space of pixel addresses, wherein segments are represented as locations in the segmentation vector space, and the membership of a segment for each pixel is determined by the distance in segmentation vector space from the data point representing the pixel to the location of the segment. The segments may be represented by points. The segments may be represented as linear functions mapping the vector space of pixel locations to the vector space of pixel values. --